Mohammed Noureddine

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EDUCATION

Northeastern University — Seattle, WA
Master of Computer Science (MSCS) — *Expected Apr 2026*
- **GPA:** 4.0/4.0
- **Relevant Coursework:** Object-Oriented Design, Data Structures and Algorithms, SQL and Relational Databases, Web Development, Cloud Computing

University of British Columbia — Vancouver, BC
Bachelor of Commerce (Financial Analytics) — *Nov 2022*
- **GPA:** 3.7/4.0
- **Relevant Coursework:** Systematic Program Design, Statistics & Probability, Management Information Systems

EXPERIENCE

Backend Finance Analyst — Jan 2023 – Sept 2023
Definity Financial — *Toronto, ON*
- Developed a scalable backend system using **Python** and **SQLAlchemy**, reducing forecast variance to under **5%**.
- Automated capital allocation modeling with **Python** and **Pandas**, decreasing report generation by **25%**.
- Optimized a **VBA-based** debt model, reducing manual processing time by **30%** and improving accuracy.
- Collaborated with cross-functional teams to ensure timely updates and successful system enhancements.
- Contributed to design and planning sessions, aligning software improvements with user needs and business goals.

Software Engineer Intern — Sept 2022 – Nov 2022
C&M Contracting — *North Vancouver, BC*
- Developed an expense management system using **Flask** with a test coverage of over **80%**, ensuring reliability.
- Implemented user authentication and role-based access controls to ensure data security and integrity.
- Created a responsive front-end interface with **HTML**, **CSS**, and **JavaScript**, enhancing user experience.

Systems Analyst Intern — May 2022 – Aug 2022
Fraser Health Authority — *Vancouver, BC*
- Designed a **Java** analytics tool that reduced analysis time from hours to seconds, increasing accuracy by **15%**.
- Conducted financial analysis for over 300 companies using **VBA** and **Java**, improving forecast accuracy by **10%**.
- Enhanced database structures with the **Enterprise Software Team**, increasing system reliability.
- Led the integration of the analytics software into the wider team, improving user interactions.
- Created real-time interactive **Power BI** dashboards reducing report preparation time by **20%**.

PROJECTS

Online Grocery Store System | *SpringBoot, JPA, PostgreSQL, SpringBoot Security, JUnit*
- Architected a backend application using **SpringBoot** for an online grocery store system, implementing **JPA** for database interactions and **SpringBoot Security** for authentication and authorization.
- Developed and thoroughly tested the system using **JUnit**, ensuring robust and secure services for user interactions.

StaySwift - MERN Stack Real Estate App | *MongoDB, Express.js, Node.js, React.js, Git*
- Led the development of a real estate **MERN stack** application and integrated **JWT** authentication.
- Designed the **UI** with **React.js**, ensuring a responsive and user-friendly interface.
- Built scalable backend services with **Node.js** and **Express.js** to handle user requests efficiently.

SKILLS

Languages: Java, Python, C/C++, JavaScript, TypeScript, PHP, VBA, CSS, HTML, R, SQL
Frameworks & Databases: Flask, Django, SpringBoot, Node.js, React.js, MongoDB, PostgreSQL, Processing3
Developer Tools: Postman, Insomnia, Git, Linux/Unix, Eclipse/IntelliJ, AWS
Libraries: Pandas, Numpy
Programming Paradigms: Functional Programming, Object-Oriented Programming